

Person with cancer—histopathological grade, tertiary Gleason Grade code N

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Person with cancer—histopathological grade, tertiary Gleason Grade code N

Identifying and definitional attributes

Metadata item type:	Data Element
Short name:	Tertiary Gleason Grade
METEOR identifier:	496572
Registration status:	Health , Standard 14/05/2015
Definition:	The tertiary Gleason grade assigned to a prostate cancer, as represented by a code.
Context:	Only relevant for people with prostate cancer.
Data Element Concept:	Person with cancer—histopathological grade
Value Domain:	Gleason grade code N

Value domain attributes

Representational attributes

Representation class:	Code	
Data type:	Number	
Format:	N	
Permissible values:	Value	Meaning
	1	Grade 1
	2	Grade 2
	3	Grade 3
	4	Grade 4
	5	Grade 5

Collection and usage attributes

Guide for use:	<p>CODE 1 Grade 1</p> <p>Closely packed small regular glands forming a circumscribed rounded nodule. Not to be used for grading of needle core biopsy specimens.</p> <p>CODE 2 Grade 2</p> <p>Glands more loosely arranged; not quite as uniform; fairly circumscribed but may have minimal infiltration at margins. Rarely, if ever, to be used for grading of needle core biopsy specimens.</p> <p>CODE 3 Grade 3</p> <p>Discrete glandular units/acini with marked variation in size and shape; infiltrates in and amongst benign prostatic tissue.</p> <p>CODE 4 Grade 4</p> <p>Fused micro acinar glands; ill-defined glands with poorly formed lumina; large cribriform irregular glands; hypernephroid.</p> <p>CODE 5 Grade 5</p> <p>Minimal if any glandular differentiation – solid sheets, cords or single cells.</p>
Collection methods:	To be collected from pathology reports.

Source and reference attributes

Submitting organisation:	Cancer Australia
Reference documents:	<p>Humphrey PA 2004. Gleason grading and prognostic factors in carcinoma of the prostate. <i>Modern pathology</i>, 17(3): 292-306</p> <p>Epstein JI, Allsbrook WCJ, Amin MB and Egevad LL 2005. The 2005 International Society of Urological Pathology (ISUP) Consensus Conference on Gleason Grading of Prostatic Carcinoma. <i>American Journal of Surgical Pathology</i> 29(9):1228–1242</p>

Data element attributes

Collection and usage attributes

Guide for use:	<p>Tertiary Gleason grade (a specific form of histopathological grade) refers to the tumour pattern that occupies the third greatest area (two other tumour patterns both occupy a greater area) of the prostate, and nearly always represents a smaller area of higher grade (typically 4 or 5).</p> <p>Gleason grades are assigned to a prostate cancer by a pathologist based on sections from a radical prostatectomy specimen. Tertiary Gleason grades are only assigned when there are 3 or more Gleason patterns/grades present. Tertiary Gleason grades are often only recorded when it contains a more aggressive pattern (higher Gleason grade) than primary and secondary grades and are only recorded for resected tissue (not biopsied).</p> <p>Tertiary Gleason grades are virtually always 4 or 5 and are an indicator of how likely it is that a tumour will spread. A low Gleason score without a tertiary grade of 4 or 5 means the cancer tissue is similar to normal prostate tissue and the tumour is less likely to spread; a high Gleason score means the cancer tissue is very different from normal and the tumour is more likely to spread.</p>
Collection methods:	To be sought from pathology reports or patient medical records.
Comments:	A Gleason grade is a prognostic indicator of prostate cancer which may be used to guide treatment and assess whether appropriate treatment protocols have been used.

Source and reference attributes

Submitting organisation: Cancer Australia

Reference documents: American College of Surgeons 2011. Facility Oncology Registry Data Standards: Revised for 2011. American College of Surgeons: Chicago.

Humphrey PA 2004. Gleason grading and prognostic factors in carcinoma of the prostate. Modern pathology, 17(3), p292-306.

Royal College of Pathologists of Australasia 2010. Prostate cancer (radical prostatectomy) structured reporting protocol (1st Ed.). Royal College of Pathologists of Australasia: Sydney.

Relational attributes

Implementation in Data Set Specifications: [Prostate cancer \(clinical\) NBPDS Health](#), Standard 14/05/2015